Lesson 7

Negative numbers — temperature in NI winter context

MODULE 1 · NUMBER — NUMBER AND PLACE VALUE, NEGATIVE NUMBERS, ORDER OF OPERATIONS

NUMBER

Numbers less than zero are called **negative numbers**. They sit to the left of zero on the number line. Numbers greater than zero are **positive numbers**.

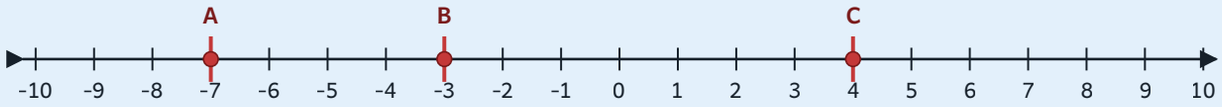
→ On a thermometer, −5 °C is colder than 0 °C.

→ On a number line: …−3, −2, −1, **0**, 1, 2, 3…

→ In the Mournes a winter morning might be **−4 °C**, while indoors it is **20 °C**.

TRY IT ON THE LINE

Use the number line to answer each question.



1. Mark **D** at **−5** and **E** at **+8**.
2. How many steps is it from **A** to **C**? _____ steps.
3. Which mark sits at the **lowest temperature** if the line is a thermometer? _____
4. If you go **6 steps right** from **B**, where do you land? _____

PRACTICE

1. Conor visits the pond at Ormeau Park with a **10** × **10** grid showing where ducks were spotted across **100** small squares. Ducks appeared in **64** of the squares, which Conor shaded in. What percent of the grid is shaded?

   On a 10×10 grid, 64 of the 100 small squares are shaded. What percent is shaded?

2. In the P7 class library, **0.75** of the books on the trolley were returned on time this week. Express **0.75** as a fraction in its lowest terms and as a percentage.

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CHALLENGE

1. At the P7 canteen till, four pupils buy lunch and the amounts come up as £ **4.80**, £ **2.963**, £ **5.830** and £ **8.404** on the spreadsheet before rounding to the nearest penny. Order the figures from smallest to largest.

   Order from smallest to largest: 4.8, 2.963, 5.83, 8.404

2. Conor and Niamh are collecting sponsorship for the P1 outdoor reading corner. Conor's neighbour pledges £ **1.30** per book and Niamh's auntie pledges £ **1.75** per book. Which pledge is more per book?

   Which is more — €1.3 or €1.75?